

Name _____

Sect _____

Re-arranging equations into slope-intercept form:
 $y = mx + b$

- We want "y" by itself
- Whatever is on the same side of the equation as y needs to be removed
- Inverse (opposite) operations
- Whatever we do to one side of the equation we must also do to the other
- Remember - we cannot combine terms that aren't "like" terms.

EX: $2y - 8x = 4$ → what is with y?
 $\quad \quad \quad + 8x \quad + 8x$ → Add 8x to remove it from
 $\hline 2y = 4 + 8x$ side w/ "y"
 $\quad \quad \quad \div 2 \quad \quad \div 2$ → Divide by 2 (opposite of
 $\hline y = 2 + 4x$ multiplication)
 $y = 4x + 2$ → Re-arrange to $y = mx + b$
 format

1) $-3x + 3y = -15$

2) $8x + 16y = 24$

3) $6x - 3y = 18$

4) $-2x - 8y = -12$

5) $2x + \frac{1}{3}y = 3$

6) $\frac{1}{2}y - x = -5$

$$7) 3x + y = 9$$

$$8) x = y + 8$$

$$9) x = 2y + 8$$

$$10) 3x = 2y + 8$$

$$11) 4y = 8x - 12$$

$$12) \frac{1}{5}x + \frac{2}{5}y = 3$$

$$13) \frac{1}{2}y = 3x - 5$$

$$14) 3x - y = \frac{1}{4}$$

$$15) -2x + 5y = 20$$

$$16) -3x - 2y = 8$$

$$17) 3x + 5y = 10$$

$$18) -2x - 5y = -35$$